

RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number:	10/088,594	
Source:	PCTIO	
Date Processed by STIC:	3/28/02	

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- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
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 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

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Revised 01/29/2002



Does Not Comply Corrected Diskette Needed

PCT10

Errors onpp.2+7

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,594

DATE: 03/28/2002 TIME: 10:30:26

Input Set : A:\EP.txt

3 <110> APPLICANT: KYOWA HAKKO KOGYO CO., LTD

```
5 <120> TITLE OF INVENTION: Novel Transaldolase
      7 <130> FILE REFERENCE: 11236W01
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/088,594
C--> 10 <141> CURRENT FILING DATE: 2002-03-21
     12 <150> PRIOR APPLICATION NUMBER: JP 99/266548
     13 <151> PRIOR FILING DATE: 1999-09-21
     15 <160> NUMBER OF SEQ ID NOS: 3
                             3 Jenith should be 1080!
     17 <170> SOFTWARE: PatentIn Ver. 2.0
ERRORED SEQUENCES
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     19 <210> SEQ ID NO: 1
     20 <211> LENGTH: 360
                                Thus, response con only be DNA or RNA.
     21 <212> TYPE: (PRT)
     22 <213> ORGANISM: Corynebacterium glutamicum ATCC31388
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                                             10
     30 gac gac ctc tcc cgc gag cgc att act tcc ggc aat ctc agc cag gtt
                                                                           96
     31 Asp Asp Leu Ser Arg Glu Arg Ile Thr Ser Gly Asn Leu Ser Gln Val
     34 att gag gaa aag tot gta gto ggt gto acc acc caa got att tto
                                                                           144
     35 Ile Glu Glu Lys Ser Val Val Gly Val Thr Thr Asn Pro Ala Ile Phe
                                     40
     38 gca gca gca atg tcc aag ggc gat tcc tac gac gct cag atc gca gag
     39 Ala Ala Ala Met Ser Lys Gly Asp Ser Tyr Asp Ala Gln Ile Ala Glu
                                 55
     40
            50
     42 ctc aaq qcc qct qqc qca tct qtt gac cag gct gtt tac gcc atg agc
     43 Leu Lys Ala Ala Gly Ala Ser Val Asp Gln Ala Val Tyr Ala Met Ser
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     46 atc gac gat gtt cgc aat gct tgt gat ctg ttc acc ggc atc ttc gag
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     47 Ile Asp Asp Val Arg Asn Ala Cys Asp Leu Phe Thr Gly Ile Phe Glu
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     50 tee tee aac gge tae gae gge ege gtg tee ate gag gtt gae eea egt
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     51 Ser Ser Asn Gly Tyr Asp Gly Arg Val Ser Ile Glu Val Asp Pro Arg
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                                       . 105
     54 atc tct gct gac cgc gac gca acc ctg gct cag gcc aag gag ctg tgg
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     55 Ile Ser Ala Asp Arg Asp Ala Thr Leu Ala Gln Ala Lys Glu Leu Trp
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Input Set : A:\EP.txt

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     62 qqt tct ttg cca gca atc acc gac gct ttg gct gag ggc atc agc gtt
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     63 Gly Ser Leu Pro Ala Ile Thr Asp Ala Leu Ala Glu Gly Ile Ser Val
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                                                 155
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     66 aac gtc acc ttg atc ttc tcc gtt gct cgc tac cgc gag gtc atc gct
     67 Asn Val Thr Leu Ile Phe Ser Val Ala Arg Tyr Arg Glu Val Ile Ala
                        165
                                             170
     70 gcg tac atc gag gga atc aag cag gca gct gca aac ggc cac gac gta
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     71 Ala Tyr Ile Glu Gly Ile Lys Gln Ala Ala Ala Asn Gly His Asp Val
     72
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                                         185
     74 tcc aag atc cac tct gtg gct tcc ttc ttc gtc tcc cgc gtc gac gtt
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     75 Ser Lys Ile His Ser Val Ala Ser Phe Phe Val Ser Arg Val Asp Val
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     78 gag atc gac aag cgc ctc gag gca atc gga tcc gat gag gct ttg gct
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     79 Glu Ile Asp Lys Arg Leu Glu Ala Ile Gly Ser Asp Glu Ala Leu Ala
                                215
                                                     220
     82 ctg cgc ggc aag gca ggc gtt gcc aac gct cag cgc gct tac gct gtg
     83 Leu Arg Gly Lys Ala Gly Val Ala Asn Ala Gln Arg Ala Tyr Ala Val
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                                                 235
     86 tac aag gag ctt ttc gac gcc gcc gag ctg cct gaa ggt gcc aac act
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     87 Tyr Lys Glu Leu Phe Asp Ala Ala Glu Leu Pro Glu Gly Ala Asn Thr
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                                             250
     90 cag ege eea etg tgg gea tee ace gge gtg aag aac eet geg tae get
                                                                           816
     91 Gln Arg Pro Leu Trp Ala Ser Thr Gly Val Lys Asn Pro Ala Tyr Ala
     92
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                                         265
     94 qca act ctt tac qtt tcc gag ctg gct ggt cca aac acc gtc aac acc
     95 Ala Thr Leu Tyr Val Ser Glu Leu Ala Gly Pro Asn Thr Val Asn Thr
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                                    280
     98 atg cca gaa ggc acc atc gac gct gtt ctg gaa ctg ggc aac ctg cac
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     99 Met Pro Glu Gly Thr Ile Asp Ala Val Leu Glu Leu Gly Asn Leu His
                                 295
     102 ggt gac acc ctg tcc aac tcc gcg gca gaa gct gac gct gtg ttc tcc
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     103 Gly Asp Thr Leu Ser Asn Ser Ala Ala Glu Ala Asp Ala Val Phe Ser
     104 305
                             310
                                                  315
                                                                            1008
     106 cag ctt gag gct ctg ggc gtt gac ttg gca gat gtc ttc cag gtc ctg
     107 Gln Leu Glu Ala Leu Gly Val Asp Leu Ala Asp Val Phe Gln Val Leu
                         325
                                              330
     110 gag acc gag ggt gtg gac aag ttt gtt gct tct tgg agc gaa ctg ctt
     111 Glu Thr Glu Gly Val Asp Lys Phe Val Ala Ser Trp Ser Glu Leu Leu
                                                              350
     112
                     340
                                          345
E--> 114 gag tcc atg gaa gct cgc ctg aag
E--> 115 Glu Ser Met Glu Ala Arg Leu Lys
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     163 <211> LENGTH: 4108
     164 <212> TYPE: DNA
     165 <213> ORGANISM: Corynebacterium glutamicum ATCC31388
     167 <221> NAME/KEY: CDS
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Input Set : $A:\EP.txt$

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176	ttg	cacc	gta	ttgc	ttgc	cg a	acat	tttt	c tti	ttcc ⁻	tttc	ggt	tttt	cga (gaat	tttcac	120
178	cta	caaa	aqc (ccac	gtca	ca q	ctcc	caga	c tta	aaga	ttgg	tca	cacc	ttt	gaca	catttg	180
180	aac	caca	gtt (ggtt	ataa	aa t	gggt	tcaa	c ato	cacta	atgg	tta	gagg	tgt '	tgac	gggtca	240
			_													taacct	
	-	_		-				-			-		_			ggttta	
																cg ctc	
187		,,,														la Leu	
188																	
	act	qta	cqc	aat	tac	ccc	tct	gat	tgg	tcc	qat	ata	qac	acc	aaq	qct	459
		-	_					Āsp			-		-		_	-	
192		15	,		1		20	1			1	25			4		
	αta	σac	act	att	cat	atc	ctc	gct	σca	gac	act	σta	gaa	aac	tat	aac	507
	_	_		_	_	-		Ala	-	-		-	-				
196	30				,	35				L	40				- 1	45	
		aac	cac	cca	aac	acc	σca	atg	agc	cta	act	ccc	ctt	σca	·tac	acc	555
							-	Met	-	_	-						
200		V-1			50					55					60		
	t.t.a	tac	caσ	caa		a t.o	aac	gta	gat.		caσ	σac	acc	aac		σca	603
	_		-		_	_		Val	-		_					_	
204		-1-		65					70					75	1		
	aac	cat	gac	cac	ttc	att	ctt	tct	tat	aac	cac	tcc	tct	tta	acc	caq	651
		-	_	-		_		Ser									
208	1	5	80	5				85	-1-	1			90				
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	110			,		115	-				120	_				125	
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								Ile									
220	,			•	130	•				135	-			_	140	-	
222	ctt	qca	tct	qca	att	qqt	atq	gcc	atq	qct	gct	cat	cqt	qaq	cat	ggc	843
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224				145		_						,	,	155	_	•	
226	cta	ttc	gac	cca	acc	act	act	gag	aac	qaa	tcc	cca	ttc	gac	cac	cac	891
								Glu									
228			160					165	1				170				
	atc	tac		att	act.	t.ct.	σat.	ggt	σac	cta	caq	σaa	aat	atc	acc	tct	939
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Input Set : A:\EP.txt

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240		L		- 1	210	,				215	-				220		
				gac													1083
243	Phe	Asn	Glu	Asp	Val	Val	Ala	Arg	Tyr	Lys	Ala	Tyr	Gly	\mathtt{Trp}	Gln	Thr	
244				225					230					235			
				gag													1131
	Ile	Glu		Glu	Ala	Gly	Glu		Val	Ala	Ala	TTE		Ala	Ala	vaı	
248			240			~~~		245	~~~	aat	200	++-	250	000	a++	caa	1179
				aag Lys													11/3
251	Ата	255	нта	цуз	цуз	АЗР	260	цуз	ALG	FIO	1111	265	116	AIG	Val	Arg	
	acc		atc	ggc	t.t.c	cca		сса	acc	atg	atg		acc	aat	act	ata	1227
				Gly													
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258	cac	ggt	gct	gct	ctt	ggc	gca	gct	gag	gtt	gca	gca	acc	aag	act	gag	1275
259	His	Gly	Ala	Ala	Leu	Gly	Ala	Ala	Glu	Val	Ala	Ala	Thr	Lys	Thr	Glu	
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	Leu	Gly	Phe	Asp	Pro	Glu	Ala	His		Ala	Ile	Asp	Asp		Val	Ile	
264				305		_ 4			310					315			1271
				cgc													1371
267	Ата	HIS	320	Arg	ser	Leu	Ald	325	Arg	нта	нта	GIII	330	гуѕ	АІа	на	
	taa	cad		aag	ttc	gat	αaα		aca	act	· acc	aac		gag	aac	ааσ	1419
		-	-	Lys		-			_	-	-						1417
272		335	, 41	1,5	1 110	пор	340					345				-1-	
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				cca													1515
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				gag													1563
	Lys	Ala	ser	Glu 385	Ата	Ата	ьeu	GIN	390	Leu	GIY	ьys	Thr	ьеи 395	PIO	GIU	
284	ata	taa	ααα	ggt	tac	act	σa c	ata		aat	too	aac	aac		ata	atc	1611
				Gly													1011
288	пси	115	400	OLY	DCI	111.0	nsp	405	1114	011	501	11011	410				
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				cct													1707
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	Ala	Met	GLY	Ser		Leu	Asn	GTA	Пе		Leu	His	GTA	GTA		arg	
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,594

DATE: 03/28/2002 TIME: 10:30:26

Input Set : A:\EP.txt

Output Set: N:\CRF3\03282002\J088594.raw

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	Val																
	vai	AIG		Ата	Ala	neu	Mec		1111	пор	AIu	тут	_	Val	rrb	1111	
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	cac																1899
311	His	Asp	Ser	Ile	Gly	Leu	Gly	Glu	Asp	Gly	Pro	Thr	His	Gln	Pro	Val	
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	Glu																
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	cct																1995
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	Val																
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	ggc																2139
331	Gly	${ t Tyr}$	Val	Leu	Val	Glu		Ser	Lys	Glu	Thr		Asp	Val	Ile	Leu	
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335	Met	Gly	Ser	Gly	Ser	Glu	Val	Gln	Leu	Ala	Val	Asn	Ala	Ala	Lys	Ala	
336		_		-		595					600				-	605	
	ctg	αаа	act	σασ	aac	att	gca	act	cac	att	att	tica	att	cct	tac	atσ	2235
	Leu																
340	шеα	Giu	ліц	Giu	610	Vai	AIU	AIU	Arg	615	V CL 1	JCI	val	110	620	1100	
																	2283
	gat																2203
	Asp	Trp	Phe		GLu	GIn	Asp	Ala		Tyr	He	Glu	Ser		Leu	Pro	
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	gca																2331
347	Ala	Ala	Val	Thr	Ala	Arg	Val	Ser	Val	Glu	Ala	Gly	Ile	Ala	Met	Pro	
348			640					645					650				
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	Trp																
352		655	ر			1	660		1	3		665					
	ttc		act	t at	aca	at.		Cad	200	cta	+++		aan	ttc	aac	atc	2427
																	2421
	Phe	GTA	Ата	ser	Ald		TAT.	GIII	THI	Leu		GLU	гуу	Pile	GTA		
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	acc																2472
359	Thr	Thr	Asp	Ala	Val	Val	Ala	Ala	Ala	Lys	Asp	Ser	Ile	Asn			
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																geetge	
	tctc																2648
367			,-3 \		,	- 5					,				iet S		
368														•	1		
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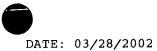
OKI



Input Set : A:\EP.txt

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	386	Ala	Ala	Gly	Ala	Ser	Val	Asp	Gln	Ala	Val	Tyr	Ala	Met	Ser	Ile	Asp	
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			ggc															2984
	394	Asn	Gly	Tyr	Asp	Gly	Arg	Val	Ser	Ile	Glu	Val	Asp	Pro	Arg	Ile	Ser	
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M>	399	115					120					125					130	
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M>						135					140					145		
			cca															3128
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M>					150					155					160			
			ttg															3176
		Thr	Leu		Phe	Ser	Val	Ala		Tyr	Arg	Glu	Val		Ala	Ala	Tyr	
M>				165					170					175				2224
			gag															3224
		He	Glu	GLY	He	Lys	GIn		Ala	АІа	Asn	GTA		Asp	vaı	ser	гàг	
M>			180					185					190					2272
			cac															3272
			His	Ser	Val	Ala		Pne	Pne	vaı	ser		vaı	Asp	vaı	GIU		
W>							200			.		205					210	2220
			aag															3320
		Asp	Lys	Arg	Leu		Ата	ire	GTA	ser		GIU	Ата	Leu	Ala		Arg	
M>						215					220					225	224	2260
			aag															3368
		СТА	Lys	Ата	_	Val	Ата	ASI	Ala		Arg	Ald	TAT	Ald		т Ат	гуѕ	
M>		~~~	a++	++~	230	~~~	~~~	~-~	a+ ~	235	~	~~+	~~~	222	240	020	cac	3416
			ctt															3410
T.7 \$		GIU	Leu		ASP	ATG	Ата	GIU		PLO	GIU	σтλ	ATG	255	TIIT.	GIII	мтд	
M>		000	at-~	245	ac.	+~~	200	~~~	250	224	226	oct.	aca		ac+		ac+	3464
	433	cca	ctg	cgg	gca	CCC	acc	gge	gtg	aag	aac	CCT	geg	Lac	get	yea	act	3404





TIME: 10:30:26

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,594

Input Set : A:\EP.txt

W>		Pro	Leu 260	Trp	Ala	Ser	Thr	Gly 265	Val	Lys	Asn	Pro	Ala 270	Tyr	Ala	Ala	Thr	
W>		~++		-++	+ ~ ~	~~~	a+ a		~~+	222	224	200		220	200	2+4	003	3512
																atg		3312
			TAL	Val	ser	GIU		Ата	GIY	PIO	ASII	285	Val	ASII	TILL	Met	290	
M>							280	~++	a+ ~	~~~	a+ ~		220	at a	a	aat		3560
																ggt		3300
:		GIU	GTĀ	Thr	тте	_	Ата	vaı	ьeu	GIU		GTĀ	ASII	Leu	HIS	Gly	ASP	
M>						295					300					305	a++	3608
																cag		3000
		Thr	Leu	ser		ser	Ата	Ala	GIU		Asp	Ата	vaı	Phe		Gln	Leu	
M>					310					315					320	~~~	200	3656
																gag		3030
		GIU	Ата		GTÄ	vaı	Asp	Leu		Asp	val	Pne	GIN		Leu	Glu	THE	
M>				325					330					335			+	3704
																gag		3/04
		G1u		vaı	Asp	ьуs	Pne		Аја	ser	Trp	ser		Leu	Leu	Glu	ser	
W>			340					345					350			~		3752
		atg						taga	aatca	igc a	icgci	gcat	c ag	jtaac	egge	g		3/32
		Met	GLu	Ala	Arg	Leu	-											
M>							360									.		2012
																	gaaagg	
																	cactgc	
																	cttcg	
																	caaacc	
																	ccaaag	
			` \	cga a	aaaat	cacgt	ca co	gegat	geeg	j caa	igtgo	ctgg	tget	.cgta	acg (gaatt	-C	4108
E>	4/6/	TRA)	12)	-4	folo	e												
	`			v	$(\mathcal{O}(\mathcal{O}))$	•												



VERIFICATION SUMMARY

PATENT APPLICATION: US/10/088,594

TIME: 10:30:27

Input Set : A:\EP.txt

Output Set: N:\CRF3\03282002\J088594.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:114 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:8 L:115 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1 M:332 Repeated in SeqNo=1 L:116 M:252 E: No. of Seq. differs, <211>LENGTH:Input:360 Found:368 SEQ:1 L:368 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:371 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:375 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:379 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:383 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:387 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:391 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:395 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:399 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:403 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:407 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:411 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:415 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:419 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:423 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:427 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:431 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:435 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:439 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:443 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:447 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:451 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:455 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:459 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:476 M:254 E: No. of Bases conflict, LENGTH:Input:12 Counted:4109 SEQ:3 L:476 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3 L:476 M:252 E: No. of Seq. differs, <211>LENGTH:Input:4108 Found:4109 SEQ:3